ENVIRONMENTAL CHEMISTS

Date of Report: August 18, 1993 Date Received: August 9, 1993

Project: 7238, Metro Self Monitor, PO #M30310

Date Extracts Analyzed: August 12, 1993

RESULTS FROM THE ANALYSIS OF THE NITRIC ACID SOLUTION SAMPLES FOR SPECIFIC GRAVITY

Sample #	Specific Gravity
M30310	1.25
M30310A	1.26
Quality Assurance	
M30310A (Duplicate)	1,26

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Date of Report: August 18, 1993 Date Received: August 9, 1993

Project: 7238, Metro Self Monitor, PO #M30310

Date Extracts Analyzed: August 13, 1993

RESULTS FROM THE ANALYSIS OF THE NITRIC ACID SOLUTION SAMPLES FOR PERCENT ACID

Results Reported as Percent

Sample ID	Percent Acid
M30310	6.2
M30310A	6.5
Quality Assurance	
10% HN0 ₃	8.4

ENVIRONMENTAL CHEMISTS

Date of Report: August 18, 1993 Date Received: August 9, 1993

Project: 7238, Metro Self Monitor, PO #M30310

Date Extracts Analyzed: August 13, 1993

RESULTS FROM THE ANALYSIS OF THE NITRIC ACID SOLUTION SAMPLES FOR IRON

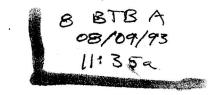
Results Reported as mg/L (ppm)

Sample ID	Iron
M30310	5,100
M30310A	4,400
Quality Assurance	
Blank	<0.5
M30310A (Duplicate)	4,600
M30310A (Matrix Spike) % Recovery	ai
M30310A (Matrix Spike Duplicate) % Recovery	ai
Spike Blank % Recovery	140%
Spike Level	10

ai The amount spiked was insufficient to give meaningful recovery data.



FRIEDMAN & BRUYA, INC. 3008-B 16th Avenue West Seattle, WA 98119



SAMPLE CHAIN OF CUSTODY

end Report To: Alaskan	Coppe Works		Contact	GERELL	Thompson	•
ddress 628 HANT	ond ST	.,				
lty, State, Zip <u>SeatHR</u> hone # (206) 623-5	5800 X218	/	Date_&	007		
none # (234) 6234	SOU A ELA		Date	-2-75		
SITE NO.	PROJECT NAME			1	ASE ORDER #	
7238 · SAMPLERS (signature)	Metro Self M	1 on iton		M 307	T LOCATION	
SAUTE CONTRACTOR			******************	T		
The second of				3200	6th Ave	
REMARKS				SAMPLI	E DISPOSAL INFORM.	
•			Þ	X	Dispose <mark>after 30</mark> days Return Samples Call for Instructions	
SAMPLE #	Date/Time	Type of	# of	lab	Analyses	
	Sampled	Sample	Jars	Sample #	Requested	
m 30310	8/2/50 10:10	Mitaic (CG)	1	42720	SP. GRAVity	
M 30310 A	8/9/53 10:11	4215m	1	427221	SP. Gravity	% of Acid
			Add	itional	thaly'sis	requested
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Received by:						

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282

DUPLICATE COPY

3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

August 18, 1993

INVOICE #93ACU0818-1

Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project 7238, Metro Self Monitor, PO #M30310: Results of testing requested by Gerry Thompson, Project Leader and submitted on August 9, 1993.

2 nitric acid solution samples analyzed for Specific Gravity @ \$25 per sample	\$ 50.00
2 nitric acid solution samples analyzed for Iron @ \$35 per sample	70.00
2 nitric acid solution samples analyzed for Percent Acid @ \$40 per sample	80.00
Amount Due	\$ 200.00

ENVIRONMENTAL CHEMISTS

Andrew John Friedman James E. Bruya, Ph.D. (206) 285-8282 3008-B 16th Avenue West Seattle, WA 98119 FAX: (206) 283-5044

August 18, 1993

Gerry Thompson, Project Leader Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Elsine Zama

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on August 9, 1993 from Project 7238, Metro Self Monitor, PO #M30310.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

Elaine K. Zamora

Chemist

EKZ/dp

Enclosures